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(NE)
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3/21/03

PATENT
2028-174 (81841.0143)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mark J. Kittock and Humayun Qureshi

Serial No: 09/685,307

Filed: October 10, 2000

For: FLUID-MOVING DEVICE WITH A
CLEARANCE SEAL

Art Unit: 3676

Examiner: Pickard, Alison K.

I hereby certify that this correspondence
is being deposited with the United States
Postal Service with sufficient postage as
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to:

Commissioner for Patents
Washington D.C. 20231, on

March 12, 2003

Date of Deposit

Wei-Ning Yang, Reg. No. 38,690

Name

Signature

3/12/03

Date

AMENDMENT UNDER 37 C.F.R. § 1.116

Box AMENDMENT AF
Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the Final Office Action dated December 17, 2002, please
amend the above-referenced application as follows:

IN THE SPECIFICATION:

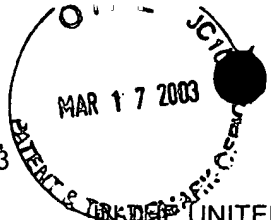
Please replace the text of the last paragraph on page 3 and the first
paragraph on page 4 with the following text:

By eliminating a direct contact between the sealing member and the moving
member, the present clearance seal assembly alleviates many of the problems
associated with the conventional seals discussed above. In particular, the
advantages of this approach include a minimal wear of the part, simplified
assembly and maintenance, significantly improved reliability, and a decreased
maintenance cost. The clearance seal of the present invention may be utilized in
any device or system that requires drawing, moving, and dispensing of fluids. The
invention may be particularly advantageous for use in high-precision pumps
employed in analytical instrumentation. For example, a piston pump with a
clearance seal manufactured in accordance with the present invention may be

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UNITED STATES PATENT AND TRADEMARK OFFICE

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Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Transmitted herewith is an amendment in the above-identified application.

- ☐ Small entity status has been claimed. See 37 CFR § 1.27.
☐ A Notice Of Change Of Attorney's Address and Associate Power Of Attorney is enclosed.
☒ No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1) CLAIMS REMAINING AFTER AMENDMENT		(Col. 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Col. 3) PRESENT EXTRA*	LG/SM \$ ENTITY FEE	ADD'L FEE DUE
TOTAL CLAIMS FEE	11	-	20	**	LG=\$18 SM=\$9	\$ [FEE]
INDEPENDENT CLAIMS FEE	2	-	3	***	LG=\$84 SM=\$42	\$ [FEE]
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS					LARGE ENTITY FEE = \$280 SMALL ENTITY FEE = \$140	\$ [FEE]
TOTAL						\$ 0

* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box on Col. 1 of a prior amendment or the number of claims originally filed.

- ☐ A check in the amount of \$ 0 to cover the additional claims fee is enclosed. **A copy of this sheet is enclosed.**
- ☐ A check in the amount of \$ 0 to cover the extension fee is enclosed. **A copy of this sheet is enclosed.**
- ☒ The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1314. **A copy of this sheet is enclosed.**
- ☒ Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims
- ☒ Any patent application processing fees under 37 C.F.R. § 1.17

Respectfully submitted,
HOGAN & HARTSON L.L.P.

By:

Wei-Ning Yang
Registration No. 38,690
Attorney for Applicant(s)

Date: March 12, 2003

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